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| FORM PTO-1449 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT | | | | ATTY. DOCKET NO. 1488.0710005 | | APPLICATION NO. 09/526,437 | |
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| | | | | APPLICANT Greene et al. | | | |
| | | | | FILING DATE March 15, 2000 | | GROUP 1643-1647 NOV 01 2000 | |

| U.S. PATENT DOCUMENTS | | | | | | | |
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| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | TECH CENTER SUB-CLASS | FILING DATE |
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| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
| | AL | | | | | | Yes No |
| | AM | | | | | | Yes No |
| | AN | | | | | | Yes No |
| 88 | AO2 | EP 0 816 380 | 01/07/1998 | Europe | | | Yes No |
| | AP | | | | | | Yes No |

| OTHER (Including Author, Title, Date, Pertinent Pages, etc.) | | | |
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| | AR | | |
| | AS | | |
| 89 | AT | 18 | Kohno, T. et al., "A second tumor necrosis factor receptor gene product can shed a naturally occurring tumor necrosis factor inhibitor," <i>Proc. Natl. Acad. Sci. USA</i> 87:8331-8335 (1990) |

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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| FORM PTO-1449 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT | ATTY. DOCKET NO. 1488.0710005 | APPLICATION NO. 09/526,437 |
| | APPLICANT Greene <i>et al.</i> | |
| | FILING DATE March 15, 2000 | GROUP 1643-1642 |

| U.S. PATENT DOCUMENTS | | | | | | | |
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| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
| | AL | | | | | | Yes No |
| | AM | | | | | | Yes No |
| | AN | | | | | | Yes No |
| | AO | | | | | | Yes No |
| | AP | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| TS | AR | 19 | Schall, T.J. <i>et al.</i> , "Molecular Cloning and Expression of a Receptor for Human Tumor Necrosis Factor," <i>Cell</i> 61:361-370 (1990) |
| | AS | | |
| | AT | | |

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| EXAMINER <i>gsc</i> | DATE CONSIDERED 1/18/02 |
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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1488.0710005APPLICATION NO.
09/526,437APPLICANT
GREENE *et al.*FILING DATE
March 15, 2000GROUP
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U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|---------------------|-----|-----------------|------------|---------------------|-------|-----------|-------------|
| JS | AA1 | 5,395,760 | 03/07/1995 | Smith <i>et al.</i> | 435 | 240.1 | 05/10/1990 |
| | AB1 | 5,464,938 | 11/07/1995 | Smith <i>et al.</i> | 530 | 350 | 08/18/1994 |
| | AC1 | 5,712,155 | 01/27/1998 | Smith <i>et al.</i> | 435 | 320.1 | 10/29/1994 |
| | AD1 | 5,741,899 | 04/21/1998 | Capon <i>et al.</i> | 536 | 23.4 | 06/07/1995 |
| | AE | | | | | | |
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FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|---------------------|-----|-----------------|------------|---------|-------|-----------|--------------------|
| JS | AL1 | WO 94/13808 | 06/23/94 | WIPO | | | Yes No |
| | AM1 | WO 94/09137 | 04/28/94 | WIPO | | | Yes No |
| | AN1 | EP 0 585 939 | 03/09/94 | Europe | | | Yes No |
| | AO1 | WO 91/09045 | 06/27/91 | WIPO | | | Yes No |
| | AP1 | WO 96/26217 | 08/29/1996 | WIPO | | | Abstract Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| JS | AR | 1 | Aruffo, A.A. <i>et al.</i> , Database A-Geneseq24 on MASPAR, Accession No. R38859 (1993). |
| | AS | 1 | Aggarwal, B. B. and K. Natarajan, "Tumor necrosis factors: Developments during the last decade," <i>Eur. Cytokine Netw.</i> 7(2):93-124 (April-June 1996). |
| | AT | 1 | Aslanidis, C., Database EMBL-new3 on MASPAR, Accession No. X75491 (March 1994). |

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FORM PTO-1449

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09/526,437APPLICANTS
GREENE *et al.*FILING DATE
March 15, 2000GROUP
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| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
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| JS | AL2 | WO 96/28546 | 09/19/1996 | WIPO | | | Yes No |
| | AM2 | WO 98/48051 | 10/29/1998 | WIPO | | | Yes No |
| | AN2 | EP 0 897 114 | 02/17/1999 | Europe | | | Yes No |
| | AO | | | | | | Yes No |
| | AP | | | | | | Yes No |

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| JS | AR | 2 | Beutler, B. <i>et al.</i> , "Unraveling function in the TNF ligand and receptor families," <i>Science</i> 264:667-668 (1994). |
| | AS | 2 | Bowie, J.U. <i>et al.</i> , "Deciphering the message in protein sequences: tolerance to amino acid substitutions," <i>Science</i> 247:1306-1310 (1990). |
| | AT | 2 | Camerini, D. <i>et al.</i> , "The T Cell Activation Antigen CD27 Is a Member of the Nerve Growth Factor/Tumor Necrosis Factor Receptor Gene Family," <i>J. Immunol.</i> 147(9):3165-3169 (1991). |

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g. schwa

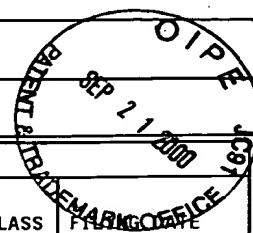
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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
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09/526,437APPLICANTS
GREENE *et al.*FILING DATE
March 15, 2000GROUP
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U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | TRANSLATION |
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| | AL | | | | | | Yes No |
| | AM | | | | | | Yes No |
| | AN | | | | | | Yes No |
| | AO | | | | | | Yes No |
| | AP | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| JS | AR | 3 | Chinnaiyan, A.M. <i>et al.</i> , "Signal Transduction by DR3, a Death Domain-Containing Receptor Related to TNFR-1 and CD95," <i>Science</i> 274:990-992 (1996). |
| | AS | 3 | Crowe, P.D. <i>et al.</i> , "A lymphotoxin-beta-specific receptor," <i>Science</i> 264:707-710 (1994). |
| | AT | 3 | Dürkop, H. <i>et al.</i> , "Molecular Cloning and Expression of a New Member of the Nerve Growth Factor Receptor Family That Is Characteristic for Hodgkin's Disease," <i>Cell</i> 68:421-427 (1992). |

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G. Schlegel

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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| FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT | ATTY. DOCKET NO. 1488.0710005 | APPLICATION NO. 09/526,437 |
| | APPLICANTS GREENE <i>et al.</i> | |
| | FILING DATE March 15, 2000 | GROUP 1643.1647 |

| U.S. PATENT DOCUMENTS | | | | | | | |
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| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
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| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
| | AL | | | | | | Yes No |
| | AM | | | | | | Yes No |
| | AN | | | | | | Yes No |
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| | AP | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| | AR | <u>4</u> | Engelmann, H. <i>et al.</i> , "Two Tumor Necrosis Factor-Binding Proteins Purified from Human Urine. Evidence for Immunological Cross-Reactivity with Cell Surface Tumor Necrosis Factor Receptors," <i>J. Biol. Chem.</i> 265(3):1531-1536 (1990). |
| | AS | <u>4</u> | Feinstein, E. <i>et al.</i> , "The death domain: a module shared by proteins with diverse cellular functions," <i>TIBS</i> 20:342-344 (September 1995). |
| | AT | <u>4</u> | Genexpress, Database EMBL/GenBank/DBJ on MASPAP, Accession No. Z38433 (October 1994). |

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| EXAMINER | <i>U. Schly</i> | DATE CONSIDERED | 11/18/02 |
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| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
| | AL | | | | | | Yes No |
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| | AR | <u>5</u> | George, <i>et al.</i> , in <i>Macromolecular Sequencing and Synthesis</i> , Schlessinger, D.H., ed., Alan R. Liss, Inc., New York, pp. 127-149 (1988). |
| | AS | <u>5</u> | Glasgow, E. and Schechter, N., Database EMBL-new3 on MASPAP, Accession No. L23876 (1993). |
| | AT | <u>5</u> | Hillier, L. <i>et al.</i> , Database EST-STS on MASPAP, Accession No. H14106 (July 1995). |

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| U.S. PATENT DOCUMENTS | | | | | | | |
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| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
| | AL | | | | | | Yes No |
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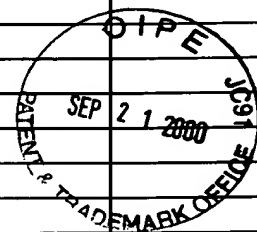
| | | | |
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| 88 | AR | 6 | Himmler, A. <i>et al.</i> , "Molecular Cloning and Expression of Human and Rat Tumor Necrosis Factor Receptor Chain (p60) and Its Soluble Derivative, Tumor Necrosis Factor-Binding Protein," <i>DNA and Cell Biol.</i> 9(10):705-715 (1990). |
| | AS | 6 | Hohmann, H.-P. <i>et al.</i> , "Two Different Cell Types Have Different Major Receptors for Human Tumor Necrosis Factor (TNF α)" <i>J. Biol. Chem.</i> 264(25):14927-14934 (1989). |
| | AT | 6 | Hsu, K. C. and M. V. Chao, "Differential Expression and Ligand Binding Properties of Tumor Necrosis Factor Receptor Chimeric Mutants," <i>J. Biol. Chem.</i> 268(22):16430-16436 (1993). |

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| | AL | | | | | | Yes No |
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| | AP | | | | | | Yes No |

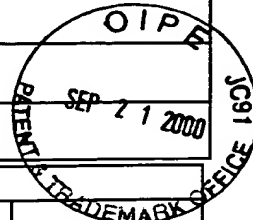
| OTHER (Including Author, Title, Date, Pertinent Pages, etc.) | | | |
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| | AR | <u>Z</u> | Hudson, T., Database EST-STS on MASPAR, Accession No. G11923 (October 1995). |
| | AS | <u>Z</u> | Itoh, N. <i>et al.</i> , "The Polypeptide Encoded by the cDNA for Human Cell Surface Antigen Fas Can Mediate Apoptosis," <i>Cell</i> 66:233-243 (1991). |
| | AT | <u>Z</u> | Johnson, D. <i>et al.</i> , "Expression and Structure of the Human NGF Receptor," <i>Cell</i> 47:545-554 (1986). |

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| EXAMINER | DATE CONSIDERED 11/1/02 |
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| | AR | <u>8</u> | Lewis, M. <i>et al.</i> , "Cloning and expression of cDNAs for two distinct murine tumor necrosis factor receptors demonstrate one receptor is species specific," <i>Proc. Natl. Acad. Sci. USA</i> 88:2830-2834 (1991). |
| | AS | <u>8</u> | Loetscher, H. <i>et al.</i> , "Molecular Cloning and Expression of the Human 55 kd Tumor Necrosis Factor Receptor," <i>Cell</i> 61:351-359 (1990). |
| | AT | <u>8</u> | Mallett, S. <i>et al.</i> , "Characterization of the MRC OX40 antigen of activated CD4 positive T lymphocytes - a molecule related to nerve growth factor receptor," <i>EMBO J.</i> 9(4):1063-1068 (1990). |

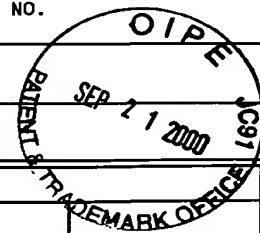
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| 5 | AR | 2 | Muzio, M. <i>et al.</i> , "FLICE, A Novel FADD-Homologous ICE/CED-3-like Protease, Is Recruited to the CD95 (Fas/APO-1) Death-Inducing Signaling Complex," <i>Cell</i> 85:817-827 (1996). |
| | AS | 2 | NCBI Entrez, GenBank Report, Accession No. D62967, from Fujiwara, T. <i>et al.</i> (August 1995). |
| 2 | AT | 2 | NCBI Entrez, GenBank Report, Accession No. D63118, from Fujiwara, T. <i>et al.</i> (August 1995). |

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G. Sehn

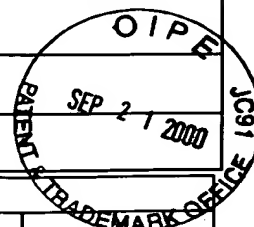
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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1488.0710005APPLICATION NO.
09/526,437APPLICANTS
GREENE *et al.*FILING DATE
March 15, 2000GROUP
1643 1643

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
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FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
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| | AL | | | | | | Yes No |
| | AM | | | | | | Yes No |
| | AN | | | | | | Yes No |
| | AO | | | | | | Yes No |
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| | AR | <u>10</u> | NCBI Entrez, GenBank Report, Accession No. D63125, from Fujiwara, T. <i>et al.</i> (August 1995). |
| | AS | <u>10</u> | NCBI Entrez, GenBank Report, Accession No. D63126, from Fujiwara, T. <i>et al.</i> (August 1995). |
| | AT | <u>10</u> | NCBI Entrez, GenBank Report, Accession No. AA296905, from Adams, M.D. <i>et al.</i> (September 1995). |

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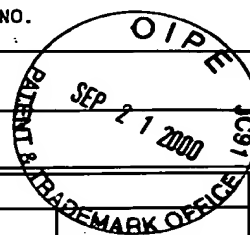
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FORM PTO-1449

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09/526,437APPLICANTS
GREENE *et al.*FILING DATE
March 15, 2000GROUP
1643-1647

U.S. PATENT DOCUMENTS

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| | AL | | | | | | Yes No |
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

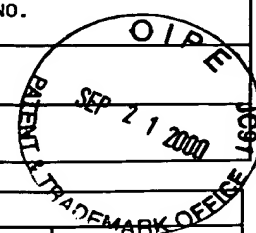
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| | AR | <u>11</u> | NCBI Entrez, GenBank Report, Accession No. AA296908, from Adams, M.D. <i>et al.</i> (September 1995). | | | | |
| | AS | <u>11</u> | NCBI Entrez, GenBank Report, Accession No. 298429, from Adams, M.D. <i>et al.</i> (September 1995). | | | | |
| | AT | <u>11</u> | NCBI Entrez, GenBank Report, Accession No. H88769, from Hillier, L. <i>et al.</i> (November 1995). | | | | |

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| | AO | | | | | | Yes No |
| | AP | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| 88 | AR | <u>12</u> | NCBI Entrez, GenBank Report, Accession No. C02463, from Okubo, K. <i>et al.</i> (July 1996). |
| | AS | <u>12</u> | NCBI Entrez, GenBank Report, Accession No. AA037313, from Hillier, L. <i>et al.</i> (November 1996). |
| W | AT | <u>12</u> | NCBI Entrez, GenBank Report, Accession No. AA195113, from Hillier, L. <i>et al.</i> (May 1997). |

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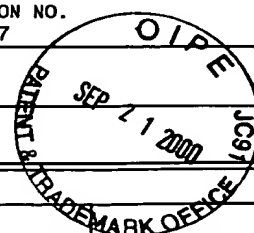
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| | AL | | | | | | Yes No |
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| | AP | | | | | | Yes No |

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| | AR | <u>13</u> | NCBI Entrez, GenBank Report, Accession No. AA233719, from Hillier, L. <i>et al.</i> (August 1997). | | | | |
| | AS | <u>13</u> | NCBI Entrez, GenBank Report, Accession No. AA706996, from Hillier, L. <i>et al.</i> (December 1997). | | | | |
| | AT | <u>13</u> | NCBI Entrez, GenBank Report, Accession No. AA599841, from Jia, L. <i>et al.</i> (March 1998). | | | | |

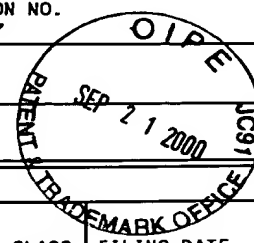
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1643 1647

U.S. PATENT DOCUMENTS

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| 88 | AR | 14 | Nophar, Y. <i>et al.</i> , "Soluble forms of tumor necrosis factor receptors (TNF-Rs). The cDNA for the type I TNF-R, cloned using amino acid sequence data of its soluble form, encodes both the cell surface and a soluble form of the receptor," <i>EMBO J.</i> 9(10):3269-3278 (1990). |
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| A | AT | 14 | Piguet, P. F. <i>et al.</i> , "Evolution of collagen arthritis in mice is arrested by treatment with anti-tumour necrosis factor (TNF) antibody or a recombinant soluble TNF receptor," <i>Immunol.</i> 77:510-514 (1992). |

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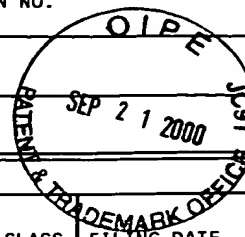
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| | AR | 15 | Radeke, M. J. <i>et al.</i> , "Gene transfer and molecular cloning of the rat nerve growth factor receptor," <i>Nature</i> 325:593-597 (1987). |
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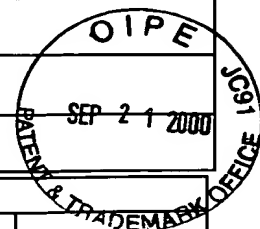
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March 15, 2000GROUP
1643-1687

U.S. PATENT DOCUMENTS

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| | AL | | | | | | Yes No |
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| | AP | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| | AR | 16 | Smith, C. A. <i>et al.</i> , "T2 Open Reading Frame from the Shope Fibroma Virus Encodes a Soluble Form of the TNF Receptor," <i>Biochem. Biophys. Res. Comm.</i> 176(1):335-342 (1991). |
| | AS | 16 | Stamenkovic, I. <i>et al.</i> , "A B-lymphocyte activation molecule related to the nerve growth factor receptor and induced by cytokines in carcinomas," <i>EMBO J.</i> 8(5):1403-1410 (1989). |
| | AT | 16 | Van Ostade, X. <i>et al.</i> , "Human tumor necrosis factor mutants with preferential binding to and activity on either the R55 or R75 receptor," <i>Eur. J. Biochem.</i> 220(3):771-779 (March 1994). |

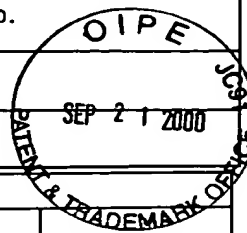
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March 15, 2000GROUP
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U.S. PATENT DOCUMENTS

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| | AL | | | | | | Yes No |
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| | AR | <u>17</u> | Zauner, W. <i>et al.</i> , Database EMBL-new3 on MASPAP, Accession No. X60370, X60371, X60550 (1992). |
| | AS | <u>17</u> | International Search Report issued by the International Searching Authority for Appl. No. PCT/US96/15003, mailed January 21, 1997. |
| | AT | <u>17</u> | International Search Report issued by the International Searching Authority for Appl. No. PCT/US96/16849, mailed March 26, 1997. |

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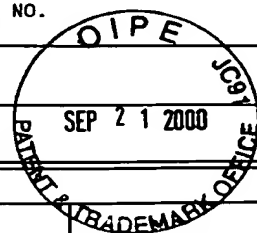
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U.S. PATENT DOCUMENTS

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| | AR | <u>18</u> | International Search Report issued by the International Searching Authority for Appl. No. PCT/US96/18540, mailed March 18, 1997. |
| | AS | <u>18</u> | Dialog File 351, WPI Accession No. 96-402320, Derwent WPI English Language Abstract for WO 96/26217. |
| | AT | <u>18</u> | |

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